

**PRELIMINARY ASSESSMENT
SYNTEX OPHTHALMICS, INC.**

2975 West Fairmount Avenue
Phoenix, Arizona 85017
Maricopa County

EPA ID#: AZD982007767

STATE ID#: 332



PREPARED BY:
Shelley J. Miller
July 15, 1991

**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF WASTE PROGRAMS
EMERGENCY AND REMEDIAL PROJECTS SECTION
SITE DISCOVERY AND HAZARD EVALUATION UNIT**

PRELIMINARY ASSESSMENT

TABLE OF CONTENTS

<u>Section I</u>	<u>Page</u>
1.0 <u>SITE DESCRIPTION</u>	1
1.1 <u>Site Location</u>	1
1.2 <u>Site Ownership/History</u>	1
1.3 <u>Other Regulatory Involvement</u>	3
2.0 <u>APPARENT PROBLEMS</u>	4
3.0 <u>HRS FACTORS</u>	10
3.1 <u>Waste Type/Quantity</u>	10
3.2 <u>Ground Water</u>	12
3.3 <u>Surface Water</u>	17
3.4 <u>Air</u>	17
3.5 <u>On-Site Pathway</u>	18
4.0 <u>EMERGENCY RESPONSE CONSIDERATIONS</u>	19
5.0 <u>OTHER CONSIDERATIONS</u>	19
6.0 <u>SUMMARY AND CONCLUSIONS</u>	19
6.1 <u>Summary</u>	19
6.2 <u>Conclusions</u>	20
7.0 <u>ADEQ MANAGEMENT REVIEW/CONCURRENCE</u>	22
8.0 <u>EPA RECOMMENDATION FOR FURTHER ACTION</u>	22
9.0 <u>REFERENCES</u>	23

TABLE OF CONTENTS

List of Figures

Figure 1. Site Location Map	1-A
Figure 2. Site Diagram	1-B
Figure 3. Groundwater Quality Data.....	6-A

List of Tables

Table 1. Syntex Corporate History.....	2-A
Table 2. Site Occupancy	2-B
Table 3. Hazardous Waste Report	10-A
Table 4. Well Locations.....	14

SECTION II

APPENDICES

- A. Contact Reports
- B. Photographs

1.0 SITE DESCRIPTION

1.1 Site Location

Syntex Ophthalmics, Inc., (hereafter known as Syntex) is located at U. S. Geological Survey (USGS) Location (A-02-02)26aab (Figure 1) (6). Syntex operated in a multi-business industrial complex known as Phoenix Plaza II. Phoenix Plaza II occupies 182,400 square feet. The two buildings that make up this complex are divided into a total of 37 offices. The site as defined in this assessment will be limited to the 3 office spaces that have been occupied by Syntex (Figure 2). The three addresses that make up this site are as follows:

2975 West Fairmount Avenue;

2931 West Fairmount Avenue; and

2930 West Clarendon Avenue;

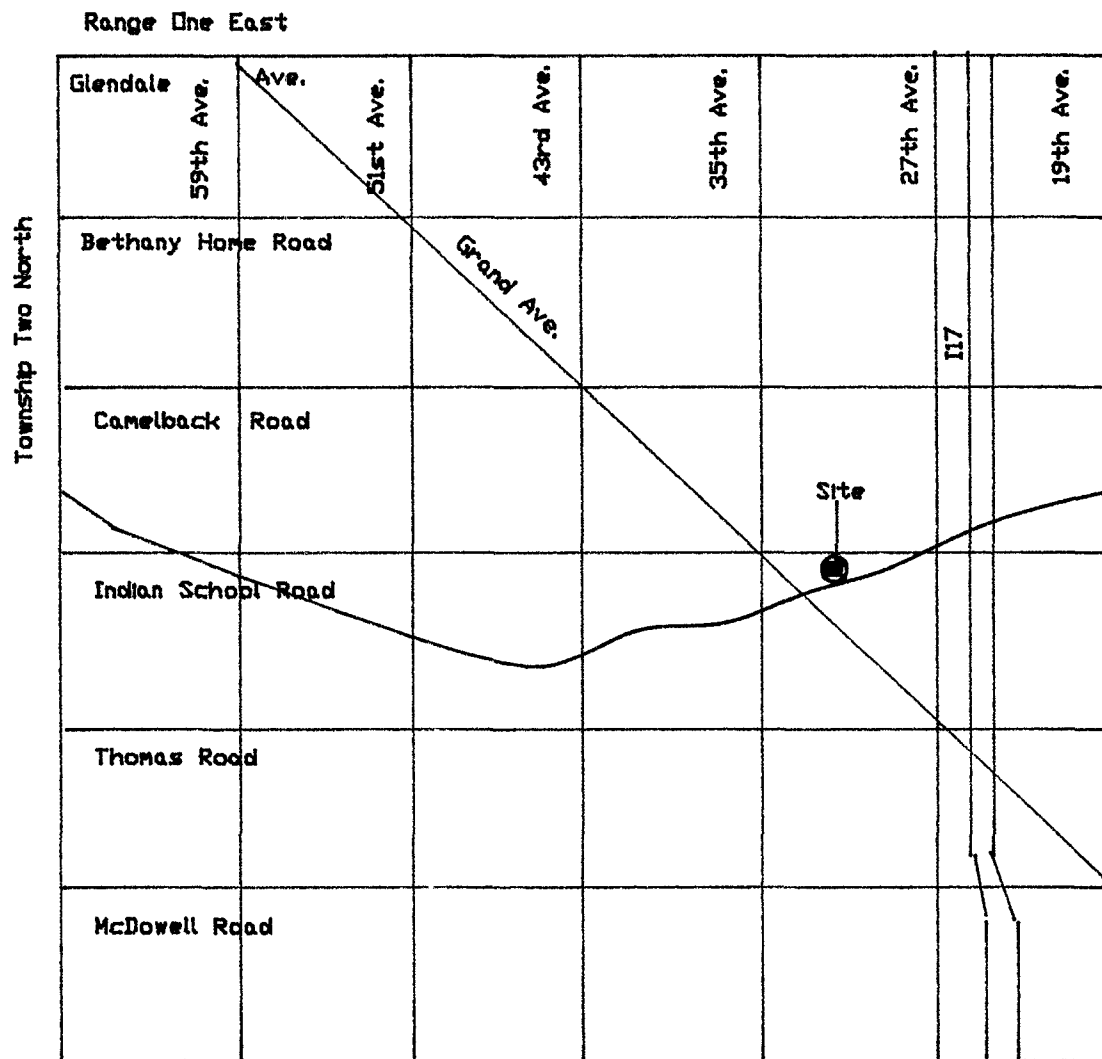
Phoenix, Arizona 85017.

The site is bordered by Fairmount Avenue on the north; Clarendon Avenue on the south; 30th Avenue on the West; and a driveway on the east (5). The surrounding land use is mostly light industrial (5, 9).

1.2 Site History/Ownership

Eaton Development owned and developed the property that is now occupied by this facility. The business park that is presently known as Phoenix Plaza II was built by Eaton Development in approximately 1967. At the time Eaton Development purchased this

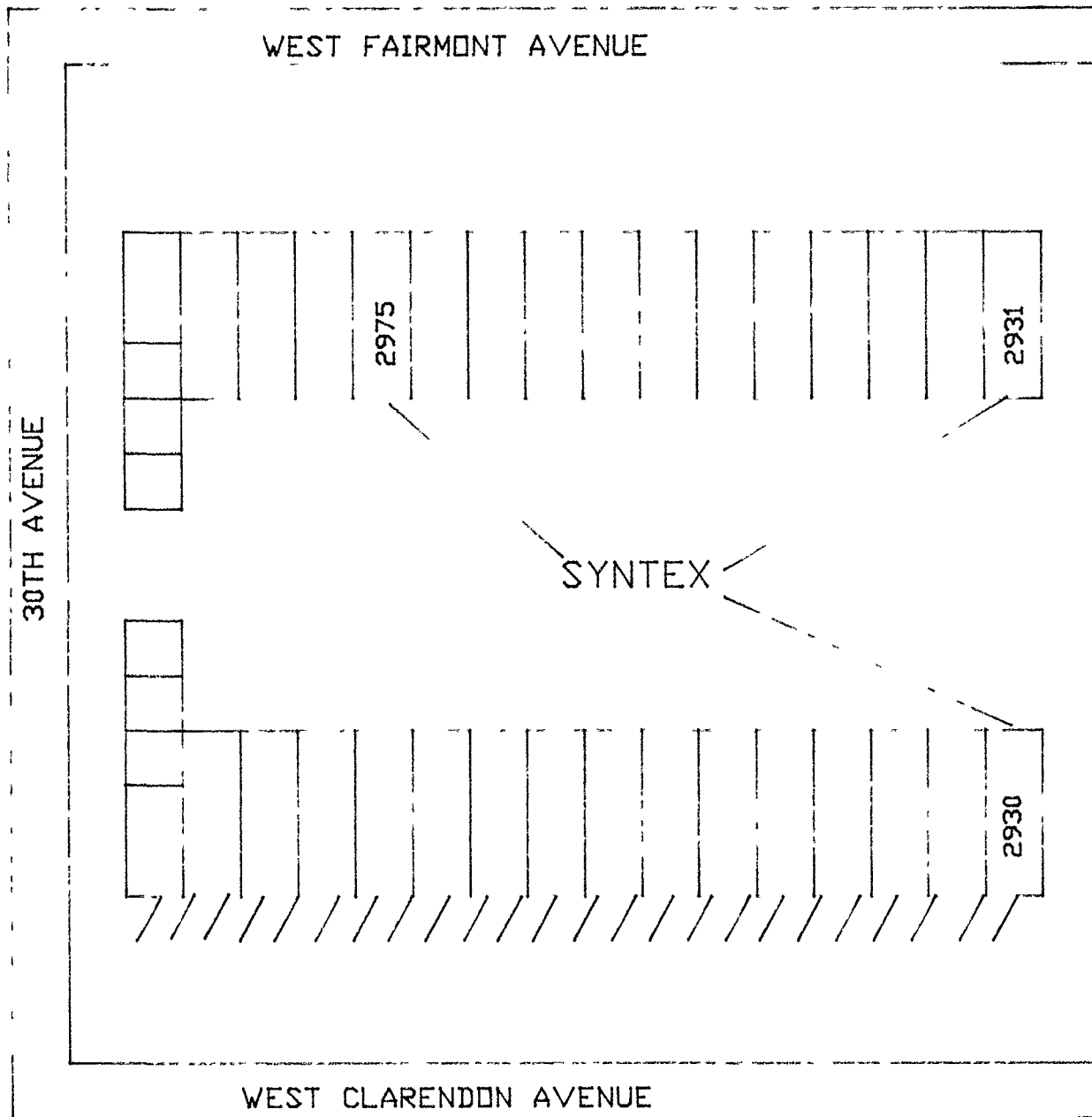
Figure 1. SYNTEX OPHTHALMICS



Arizona Department of
Environmental Quality

Figure 1. Site Location Map

PHOENIX PLAZA II BUSINESS COMPLEX



ARIZONA DEPARTMENT OF
ENVIRONMENTAL QUALITY

FIGURE 2 SITE DIAGRAM
SYNTEX OPHTHALMICS

property, it was occupied by Airhaven Airport. (The current legal description of this property is Airhaven Industrial District.) The airport runway was bordered on either side by alfalfa fields. Although there were small-plane hangers, available information indicates there were no chemicals housed at this location (9, 14, 17).

Sierra-Sammis purchased the property in October, 1987, and is the current owner (8, 17).

The Syntex corporation has undergone several name and ownership changes (See Table 1). Based on information received from Sola/Barnes-Hind (one of the names by which Syntex is known), Syntex occupied this site from June 1977 to February 1984. A compilation of the history of the occupancy of this site according to the Cole's Directory can be seen in Table 2. Cole's listing for 1983 was not available (7, 40, 49).

Sola-Syntex consolidated five locations, including 2930 W. Clarendon Avenue and 2931 W. Fairmount Avenue into its new location at 1100 East Bell Road in Phoenix, Arizona. The relocation of this company to its current location began in December 1983 (40).

While located at this site, Syntex corporation manufactured contact lenses. Waste generated by this process was transported off site for treatment and disposal.

Telephone Installation Maintenance Service (T.I.M.S.) is presently located at 2930 West Clarendon Avenue. This business sells and installs business telephone systems (42).

TABLE 1
SYNTEX
Corporate History

YEAR	NAME	OWNERSHIP
1977-1984	Syntex Ophthalmics Inc.	Syntex Corporation Palo Alto, Ca.
1985-1987	Sola-Syntex Ophthalmics	Sola USA, Inc. Petaluma, Ca. Subsidiary of Pilkington PLC
1987-present	Sola/Barnes-Hind, Inc.	Pilkington U. S. Pilkington Vision Care (15, 16)

SITE OCCUPANCY
TABLE 2

<u>YEAR</u>	<u>2975 W. FAIRMOUNT</u>	<u>2931 W. FAIRMOUNT</u>	<u>2930 W. CLARENDON</u>
1964-	Unlisted	Unlisted	Unlisted
1968			
1969	Safety Engineering Spl. Traffic & Transp.	Unlisted	Unlisted
1970	Safety Engineering Spl.	Unlisted	Unlisted
1971	Safety Engineering Spl. Dave Wynne Co.	Unlisted	Unlisted
1972	Unlisted	Unlisted	Unlisted
1973	St. Health Sanitation	Unlisted	Unlisted
1974	Circle K Corporation	Chem-Serv, Inc.	Unlisted
1975	Unlisted	Chem-Serv, Inc.	Unlisted
1976	Commonwealth Realty	Chem-Serv, Inc.	Unlisted
1977	Commonwealth Realty	Chem-Serv, Inc.	Unlisted
1978	Dura Products	Unlisted	Unlisted
1979	Syntex Ophthalmics	Unlisted	Syntex Ophthalmics
1980	Unlisted	Syntex Ophthalmics	Syntex Ophthalmics
1981	Unlisted	Syntex Ophthalmics	Syntex Ophthalmics
1982	Unlisted	Syntex Ophthalmics	Unlisted
1984	Unlisted	Unlisted	Unlisted
1985	Unlisted	Unlisted	Unlisted
1986	Unlisted	Unlisted	Unlisted
1987	Unlisted	Unlisted	National Telephone Tims, Tel. Instaltn. Telephone Whse.
1988	Lake Enterprises Lifestyle Pool Servs.	Unlisted	Unlisted
1989	Lake Enterprises	Unlisted	National Telephone Tims, Tel. Instaltn.
1991	3 Dimensions	Unlisted	Natl. Telcom. Remember Whn. Cruis. Tims, Tel. Instaltn.
Drive-by	Matol Botanical International	Advanced Copy Systems, Inc. Canon ^R	No Information

Matol Botanical International is presently located at 2975 East Fairmount Avenue. This business sells health products. They distribute an herbal drink called KM as well as weight management products (43).

Advanced Copy Systems/Canon is currently located at 2931 West Fairmount Avenue. They sell, supply and service copy machines (44).

Chem-Serv, Inc., according to Cole's Directory, was located at 2931 W. Fairmount from 1974 to 1977. This company does not use chemicals but stores them for sale to customers (45). (Refer to Apparent Problem Section for more information.)

1.3 Other Regulatory Involvement

This site is located within the boundaries of the Water Quality Assurance Revolving Fund (WQARF) West Central Phoenix Study Area. WQARF is also known as the State Superfund.

The objective of the WQARF program is to protect public health and the environment through remedial actions in the event of a threat or release of hazardous substances that may affect waters of the State (22). The boundaries for the West Central Phoenix Study Area are described in Figure 3.

Syntex corporation filed a Notification of Hazardous Waste Activity with the EPA under the Resource Conservation and Recovery Act (RCRA) on August 14, 1980. They were issued EPA ID #AZD000625723 for their location at 2931 W. Fairmount Avenue, and EPA ID #AZD000617431 for their address at 2930 W. Clarendon

Avenue. As a result of an Arizona Department of Health Services (ADHS) inspection at these two locations on August 31, 1983, Syntex was classified as a small quantity hazardous waste generator (2, 21). There has not been an EPA identification number issued to the address at 2975 W. Fairmount and no RCRA inspection has been conducted at this location as it appears to have been used for office space only.

When Syntex consolidated into a single operation at 1100 E. Bell Road in Phoenix, they filed a Notification of Hazardous Waste Activity on March 21, 1984, and were issued the new EPA ID# AZD980881791. As a result of this consolidation, Syntex is listed on the March 04, 1991, RCRA database as a large quantity generator (>1,000 kilograms/month) (2, 18, 20).

There are no underground storage tanks or drywells at this site. There is nothing on record with the City of Phoenix, Waste and Wastewater Department; Arizona Department of Environmental Quality (ADEQ) Groundwater Permits; or Maricopa County Health Department, Bureau of Air Pollution Control (4, 10, 11, 12, 19). There has been no inspection by Arizona Occupational Safety and Health Administration conducted at this site (13). There has been no inspection at this site by the Phoenix Fire Department.

2.0 APPARENT PROBLEM

Volatile organic compounds (VOCs) were first detected in the west central Phoenix area following the sampling and analysis of groundwater in July, 1982. The groundwater was collected from

City of Phoenix (COP) municipal supply wells 70, 71, 151, and 152. Subsequent groundwater sampling by ADHS, Salt River Project (SRP), and the COP in 1983, 1985, and 1986, has confirmed the presence of VOCs in municipal water-supply and irrigation wells in the west central Phoenix area (22).

As a result of the discovered groundwater contamination, the COP Well #71 Area (EPA ID #AZD980818827) was entered into the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database on September 1, 1983 (35). A preliminary responsible party (PRP) search conducted by John Shepherdson, ADHS, was completed on November 16, 1984. The PRP search listed over 400 businesses in the area which could potentially be storing, handling, or disposing of hazardous substances (1). The area covered by the PRP search became known as the Phoenix Well #71 Area. The boundaries described by this area are:

North:	Highland Avenue
East:	27th Avenue
South:	Encanto Blvd.
West:	43rd Avenue

The Syntex site was listed on the EPA CERCLIS database as a result of the PRP search conducted on Phoenix Well #71.

Extensive groundwater contamination in the Phoenix Well #71 Area was documented in a Site Inspection Report on September 3, 1985. Groundwater sample laboratory results indicated the presence of trichloroethylene (TCE), trans-1,2-dichloroethylene(trans-1,2-DCE), 1,1-dichloroethylene (1,1-DCE),

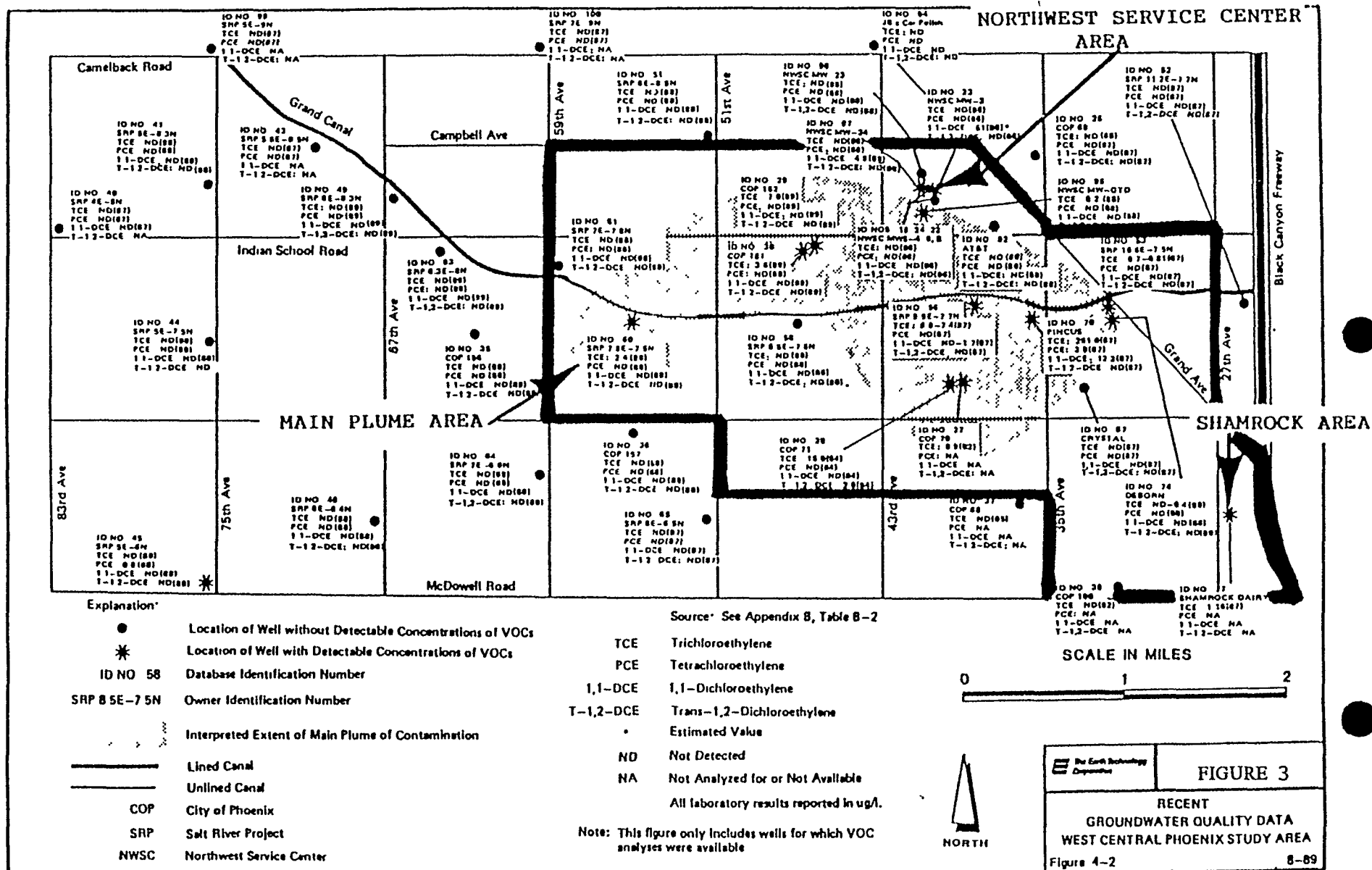
and tetrachloroethylene (PCE) with reported maximum concentrations of 340 µg/L, 7 µg/L, 3 µg/L, and 2 µg/L, respectively (36). These results were detected in a well known as the Pincus Well, (formerly know as the Landsdale Well).

The Phoenix Well #71 site is encompassed by another Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) site known as the West Phoenix Industrial Area (WPI), EPA ID #AZD982007346 (35, 50).

In 1986, the WPI site was designated a WQARF State Superfund site. For the purposes of the WQARF study, the WPI site was named the "West Central Phoenix WQARF Study Area" (Figure 3) (50).

Under the WQARF program, The Earth Technology Corporation (TETC) received a contract from ADEQ to conduct a preliminary remedial investigation to assess the nature, extent, severity, and potential sources of VOCs detected in groundwater beneath the WPI site. The TETC Phase I Report cited groundwater contamination in three distinct locations: the Main Plume Area, the Northwest Service Center Area, and the Shamrock Area (See Figure 3) (22).

The Main Plume Area encompasses approximately two square miles in the central portion of the WQARF Study Area. The contaminated plume identified in this area contains concentrations of TCE, PCE, and 1,1-DCE above EPA Primary Maximum Contaminant Levels (MCLs) and Arizona Health-Based Guidance Levels (HBGLs). The TCE contamination is the most widespread and defines the boundaries of the plume (22). The Syntex site is located east of the Main Plume Area.



The Pincus Well, USGS Location (A-02-02)27ada, is located approximately two-thirds of a mile west and downgradient of the site. As stated previously, it has been found to contain 2 μ /L PCE. There is documentation that PCE has been used at this site. As a component of Synsolve, it was used as a cleaner in the manufacturing of contact lenses.

As stated previously, Syntex corporation occupied three different addresses at this site. The 2931 W. Fairmount Avenue location contained quality assurance laboratories. The 2930 W. Clarendon Avenue location was a manufacturing facility. The 2975 W. Fairmount location was used for offices.

Syntex corporation was in the business of manufacturing contact lenses. Documentation indicates that for the period from 1977 through 1979, the waste stream generated by this process was as follows:

Acetonitrile	Methanol
Freon	Rinsolve
Methylene Chloride	Synsolve

PCE (1-10% by volume) and Methylene Chloride (1-10% by volume) are components of Synsolve. Glycidyl Methacrylate was also used but discontinued in 1980 (46, 51).

Sola/Barnes-Hind questioned former Syntex employees who recalled the use and storage of the following chemicals at the site. "Total quantities" of chemicals normally stored at the sites, as indicated by employee interviews, are as follows:

Rinsolve	100 gallons
Synsolve	100 gallons
Trichloroethane	150 gallons
Freon	500 gallons
Silicone	50 gallons
Shellsol	10 gallons
Mineral Oil	55 gallons (40)

The rate at which the chemicals were used cannot be determined from the information provided.

Synsolve was used by production personnel to clean paraffin wax from brass tools used in the production of contact lenses. Personnel used self-contained "Safety-Kleen" degreasing stations to clean equipment. The solvent used in these degreasing stations was petroleum naphtha (Rinsolve). Chemicals were stored in 55 gallon drums (46, 48).

At the time Syntex occupied this site, no waste treatment or disposal operations were performed on site. "Spent" solvent was transported off site. Invoices and Hazardous Waste Manifests from 1980 identify Rinchem Corporation, Southwest Solvents, and Chemway as the carriers for waste solvents that were picked up from this site (46, 48).

There are no problems identified with past inspections at this site. (Refer to Regulatory Involvement Section for specific details.) The ADHS Bureau of Waste Control inspected the Syntex quality control laboratory at 2931 W. Fairmount Avenue on August 31, 1983. The Generator Inspection Report listed solvents used at this location as Methylene Chloride, Chloroform, and Acetone. The ADHS also inspected the Syntex manufacturing facility, located at 2930 W. Clarendon Avenue, on August 31, 1983.

According to the Generator Inspection Report, hazardous wastes generated at the manufacturing facility were Synsolve and Rinsolve (49). There were no other inspection reports found in the ADEQ files.

According to these 1983 Generator Inspection Reports for Syntex, waste materials were stored in containers. The type of containers is not indicated but the report indicates the container storage area was well maintained. Waste material was transported approximately every three months by Chemical Waste Management (49).

As stated in the Ownership History section, Chem-Serv, Inc. is a prior occupant of this site. They are not listed in the RCRA database (2). Chem-Serv, Inc. is currently located at 2955 West Clarendon Avenue. Chemicals are not used by this company but are stored for sale to customers. The following chemicals are sold by Chem-Serv: Sodium Sulfite Anhydrous, AMP-95, Caustic Soda Solution 50%, Sodium Hexametaphosphate, Borax 5 Mol, Phos 6, NABE-M, Mitrol G-ST, Dantoin, Potassium Permanganate, Sodium Nitrate, Hydrochloric Acid, Sodium Nitrite, and WSCP (45).

No information has been found that would indicate the companies presently occupying this site perform any manufacturing processes or use hazardous chemicals. Syntex is no longer located at this site. The potential for present and future releases to groundwater, surface water, and air from the site appears to be small.

3.0 HRS FACTORS

3.1 Waste Type/Quantity

There is no indication hazardous substances have been used or released by any of the current occupants of this site. As stated previously, Chem-Serv sells chemicals but there is no indication they used them at this site.

As stated previously, a number of chemicals are used in the manufacturing of contact lenses. A list of chemicals for disposal from this site was documented in a letter on September 12, 1979. This letter from Syntex to Rinchem lists the following chemicals for disposal: Acetone, Acetonitrile, Dimethyldiethoxysilane, Dimethylforamide, Ethanol, Ethylene Glycol Dimethacrylate, Hexane, Hydrochloric Acid, Glycidyl Methacrylate, Methanol, Methyl Methacrylate, Methylene Chloride, Sulfuric Acid, and Toluene (47).

Generator Annual Waste Reports submitted by Syntex for 1981 and 1982 from 2931 W. Fairmount Avenue indicate there was no activity at this site. Generator Annual Waste Reports for 2930 W. Clarendon Avenue are not available. Annual Waste Reports for the remainder of the time Syntex occupied this site are not found in the RCRA files. As stated previously, Syntex was classified as a small quantity generator during this time.

Information from a Generator Annual Waste Report submitted by Syntex for 1985 is contained in Table 3. As indicated by the change in RCRA status (Refer to Regulatory Involvement Section), there was an increase in waste quantity generated by this company due to its consolidation into one location. Although the 1985

TABLE 3
Generator Annual
Hazardous Waste Report
1985

Chemical Name	EPA Waste No.	Physical Description	Amount
Silicone Fluid	D001	Liquid	3515.4
Rinsolve	D001	Liquid	1416.6
(Naphtha VM + P)			
Synsolve	D001	Liquid	3706.0
	F001		
Freon Sludge	F002	Sludge	10710.0
Mineral Oil	F002	Liquid	4257.0
Sump Rinse Water	F002	Liquid	1383.2
Toluene	F005	Liquid	180.5
Silylation Fluid	U154	Liquid	49.5
Almag Oil	F002	Liquid	15021.0
Labpack	D001	Liquid	450.0
Empty Waste Containers	D001	Drums	181.8
Polymer Waste	U002	Liquid	0.1
	U162		
Alpha Waste	F005	Liquid	180.5
All Data is in Kilograms			

report does not reflect waste quantity for the site, there is little variation in the type of chemicals used (2, 3).

According to the Generator Inspection Report for 1983, (Refer to Apparent Problem Section) Syntex, at 2931 W. Fairmount Avenue, generated the following quantity of waste:

Methylene Chloride	200 ml per month
Chloroform	60 ml per month
Acetone	Minuscule Amounts

The Syntex 1983 Generator Inspection Report for 2930 W. Clarendon Avenue showed the following quantity of waste generated by this manufacturing location:

Synsolve	2780.6 kg per year
Rinsolve	1257.8 kg per year

The report indicates that in 1983, the average monthly accumulation of waste was 336.5 kg per month. Drums for transportation were accumulated at the rate of 1.5 per month (49).

Other Generator Inspection Reports from 1979 to 1984, when Syntex occupied this site, are not on file with ADEQ.

Based on documents submitted by Sola/Barnes-Hind, waste quantity cannot be determined. Records of chemical purchase and waste disposal are incomplete. The majority of disposal records received from this company are from October, 1980. In October, there was an accumulation of ten drums of waste solvent for pickup (48).

Groundwater

There has not been an observed release to groundwater from this site. Although PCE has been used at this site, there is a low potential for release. The chemicals were stored in drums and the storage area reportedly was well maintained.

The Phoenix metropolitan area is located within the western part of the Salt River Valley area. This broad alluvial basin is bounded on the south by the Buckeye Hills, South Mountain, and Sierra Estrella; the White Tank Mountains are located at the west boundary; the Hieroglyphic Mountains border the valley on the north; and smaller mountains and hills lie along the northeast and east margins of the valley (24).

The West Central Phoenix WQARF study area is located in the West Salt River Valley sub-basin of the Phoenix Active Management Area (AMA). The main sources of groundwater in the Phoenix AMA are the valley-fill deposits. A three-fold division of the water-bearing units consists of the Upper Alluvial Unit, Middle Fine-grained Unit, and Lower Conglomerate Unit. Because of complex facies relationships and mixed lithology within the units, they are hydrologically interconnected to some degree (24). These three units are considered to be the aquifer of concern. The primary source of groundwater in the West Salt River Valley sub-basin is the Upper Alluvial Unit (23).

The Upper Unit of the basin fill includes channel, floodplain, and alluvial-fan deposits that consist largely of gravel, sand,

and silt. The upper unit is the most permeable, with sediments ranging from 50 to more than 95 percent sand and gravel, and the primary source of groundwater in the valley-fill deposits. Hydraulic conductivity values range from 180 to 1700 feet per day (24).

The Middle Fine-grained Unit of the basin fill includes playa, alluvial fan, and fluvial deposits of silt, clay, siltstone, and silty sand and gravel. The Middle Fine-grained Unit contains more than 40 percent sand and gravel throughout most of the basin. Hydraulic-conductivity values for wells perforated in the middle unit are from 4 to 60 feet per day in sediments ranging from 28 to 62 percent sand and gravel. Water-level declines in parts of the study area have significantly dewatered this unit (24).

The Lower Unit is divided into lower and upper parts both of which are generally fine grained but differ in consolidation, homogeneity, types of evaporite deposits, and structure. The lower part of the Lower Unit is composed of mudstone, siltstone, gypsiferous and anhydritic mudstone, sand, gravel, conglomerate, halite, gypsum, and anhydrite. Hydraulic-conductivity values in the lower part of the lower unit range from 6 to 9 feet per day in sediments ranging from 50 to 90 percent sand and gravel. The upper part of the Lower Unit consists of silt, clay, mudstone, siltstone, gypsiferous mudstone, gypsum, sand, and gravel. Hydraulic-conductivity values in the upper part of the lower unit range from 3 to 24 feet per day in sediments ranging from about 10 to 75 percent sand and gravel. The upper part of the Lower

Unit is fully saturated in most of the basin (24).

According to maps showing the groundwater conditions in the West Salt River Valley sub-basin, direction of regional groundwater flow was to the west-northwest in 1983. The regional groundwater gradient is about 0.002 (11 feet per mile). Depth to groundwater in this sub-basin in 1983 ranged from four to 651 feet. Depth to groundwater in the area of the site is approximately 185 feet (22, 23, 25, 33).

The number and uses of wells within a four mile radius of the site are contained in Table 4:

TABLE 4
WELLS
Within Four Mile Radius of Site

Distance	Type	Number
0- $\frac{1}{4}$ Mile		None
$\frac{1}{4}$ - $\frac{1}{2}$ Mile	Public Supply	1
	Irrigation	2
	Other	<u>None</u>
	Total	3
$\frac{1}{2}$ -1 Mile	Public Supply	1
	Irrigation	2
	Other	<u>14</u>
	Total	17
1-2 Miles	Public Supply	9
	Irrigation	1
	Other	<u>71</u>
	Total	81
2-3 Miles	Public Supply	5
	Irrigation	17
	Other	<u>34</u>
	Total	55
3-4 Miles	Public Supply	3
	Irrigation	15
	Other	<u>96</u>
	Total	115 (25)

The closest, active drinking water well to the site is registered with the Arizona Department of Water Resources as a domestic well located approximately three-fourths of a mile southwest of the site (25). This is the production well for Crystal Bottled Water, (A-02-02)26cbd. Drinking water from this well is pumped from the Lower alluvial Unit. There appears to be some interconnection between the lower, middle, and upper aquifers. The water is processed and serves approximately 3,500 households in Arizona (52). Based on 1985 special census data for three counties in Arizona, there are approximately 2.8 persons per household (53, 54, 55). This would provide an estimate of 9,800 people served by this well.

The Shamrock Dairy Well, (A-02-02)36bcc, is located one to two miles south of the site. Although the Arizona Department of Water Resources well database does not list this well as a public supply well, the water from the well is treated and bottled for public consumption (56). There is no documentation on how many people are served by this well.

A municipal well, COP well #72, (A-02-02)15dca, less than two miles northwest of the site, is currently active. All other public supply wells within a four mile radius of this site are unavailable, inactive or capped (37, 38, 41). There are no Salt River Project wells being used to supplement drinking water within a four mile radius of this site (39).

The distribution system for the municipal supply wells in

Phoenix is interconnected. In this blended system, water is pumped from the ground to one or more water treatment plants where it is distributed to any point in the system (34).

The total population served by wells within a four-mile radius of this site is as follows:

0 - $\frac{1}{4}$ Mile	None
$\frac{1}{4}$ - $\frac{1}{2}$ Mile	1,925 People
$\frac{1}{2}$ - 1 Mile	9,800 People
1 - 2 Miles	17,325 People
2 - 3 Miles	9,625 People
3 - 4 Miles	5,775 People

As mentioned previously, the site is located in an area of documented groundwater contamination. The vertical extent of contamination is thought to be confined to the Upper Alluvial Unit. The lateral extent of contamination is undefined.

According to a study by Salt River Project using indicator wells in the West Salt River Valley, mineral quality of groundwater in the West Central Phoenix Area is generally sodium-chloride type and poor in quality. Total dissolved solids (TDS) concentrations range from 800 to 1,500 milligrams/liter (mg/l), exceeding the federal drinking water guideline of 500 mg/l (22).

The surface soil deposits at the site belong to the Gilman-Estrella-Avondale soil association which is nearly level loam soils on valley plains and flood plains. The permeability of this association is 0.6 - 2.0 inches per hour (26).

A well driller's log from the area characterizes the

unsaturated zone as sand and clay. The hydraulic conductivity of these geologic materials is estimated to be 10^{-6} cm/sec (58).

The climate in the metropolitan Phoenix area is very arid, with evaporation greatly exceeding precipitation. Precipitation is heaviest in the winter months, with a net seasonal precipitation of about -13 inches (November-April) (28).

3.3 Surface Water

There has not been an observed release to surface water at the Syntex site. The area is generally flat, with a gentle southward slope of 0 to 1 percent (26). The Grand Canal is located 0.33 miles south of the site (6). Although the canal is regionally downgradient from Syntex, the potential for an observed release is low as the canal is banked and elevated to prevent surface runoff from entering it. The only known use for the Grand Canal is irrigation. There are no downstream drinking water intakes within four miles of this site; therefore, the target population for this route is zero.

The two year 24-hour rainfall for this area is 1.5 inches (29).

3.4 Air

There is no documentation that would indicate a release to air has occurred at this site. At the present time, there is a low potential to release as there are no chemicals being used on site. Due to the amount of industry in this area and the high

turnover at the site, a future release could be documented.

Syntex was not regulated by the Maricopa County Bureau of Air Pollution Control during their occupancy at this site. Due to the multitude of occupants over a long period of time at this site, the activities of all occupants have not been determined.

According to the census tract, the population density within a four-mile radius of this site is as follows:

0 - $\frac{1}{4}$ Mile	1889 People
$\frac{1}{4}$ - $\frac{1}{2}$ Mile	5368 People
$\frac{1}{2}$ - 1 Mile	21,713 People
1 - 2 Miles	35,189 People
2 - 3 Miles	77,827 People
3 - 4 Miles	101,242 People (30)

There are no known sensitive environments within four miles of the site (31).

The nearest schools to the site are Granada Primary and Granda East Elementary Schools located approximately one-half mile north of the site (59). The population of these schools has been included in the population information itemized above.

This site is located in a 100-year to 500-year flood zone area (57).

3.5 On-Site Pathway

The potential for exposure at this site is low as Syntex corporation has not been located at this site for seven years. Furthermore, the current occupants of this site don't use

chemicals. Additionally, the possibility of exposure is minimized due to a small fenced loading area behind each office space and because the entire area is covered by asphalt.

As stated previously, the site is in an area zoned light industrial (9). There are a total of 37 office spaces in the Phoenix Plaza II complex (Figure 2). There has been a high turnover of occupants at this site. The number of employees on-site at any one time is undetermined.

4.0 EMERGENCY RESPONSE CONSIDERATIONS

There are no apparent emergency response considerations at the Syntex site. There is no information to indicate that actual emergency incidents have occurred at the Syntex site and because there is no manufacturing on site at this time, the potential for future emergency response considerations is small.

5.0 OTHER CONSIDERATIONS

There are no other apparent considerations for this site.

6.0 SUMMARY AND CONCLUSIONS

6.1 Summary

Syntex Ophthalmics, Inc. operated at 2975 West Fairmount Avenue, 2931 West Fairmount Avenue, and 2930 West Clarendon Avenue, Phoenix, Arizona 85017, USGS Location (A-02-02)26aab, from June 1977 to February 1984. Syntex is located within the West Central Phoenix WQARF Study Area. The groundwater in this

area is contaminated with concentrations of TCE, PCE, and 1,1-DCE.

There is no documented mishandling of chemicals at this site. Syntex corporation, as well as Chem-Serv, have stored chemicals at this site. Syntex corporation was in the business of manufacturing contact lenses. They used a variety of chemicals in this process including Synsolve (containing PCE). The facilities that currently occupy this site do not use chemicals.

There are no underground storage tanks or drywells at this site.

There are no documented violations at this site. An inspection report by ADHS at Syntex corporation in 1983 indicates the container storage area was well maintained.

The hazardous waste generated by Syntex corporation was not treated on site. There is no evidence of improper hazardous waste disposal.

6.2 Conclusions

There is no observed release to groundwater, surface water or air.

If there were a release at this site, it would be unlikely that it would travel to the groundwater based on the following:

- Depth to groundwater is 185 feet.
- Net precipitation is low.
- Low hazardous waste quantity.
- Relatively no highly toxic chemicals used on site.

- Site is covered by asphalt.
- No underground storage tanks or drywells.

The potential for a past release to the air would be low due to the small quantity of volatile chemicals used by the companies at this site.

Due to the topography of the area, a release to surface water would be unlikely.

The potential for a future release to the environment of hazardous materials at this site is low due to the nature of the facilities that currently occupy the site.

A copy of this PA will be forwarded to the WQARF West Central Phoenix Study Area.

Larner Machine, Inc., located in the same complex as Syntex, is permitted with City of Phoenix Wastewater. A Preliminary Assessment should be completed on Larner Machine, Inc., 2982 West Clarendon Avenue, Phoenix, Arizona 85017, due to the nature of their business.

7.0 ADEQ MANAGEMENT REVIEW/CONCURRENCE:

M. H. Williams *7/17/91*

8.0 EPA RECOMMENDATION FOR FURTHER ACTION:

	Initial	Date
No further action under CERCLA	_____	_____
High priority SSI	_____	_____
Medium priority	_____	_____
Notes:		

9.0 REFERENCES

1. Phoenix Well No. 71, Responsible Party Search, by John Shepherdson, Arizona Department of Health Services. November 16, 1984.
2. Resource Conservation and Recovery Act Database. March 04, 1991.
3. Arizona Department of Environmental Quality, Generator Annual Hazardous Waste Reports 1981, 1982, and 1985.
4. Barbara Herron, Arizona Department of Environmental Quality, Underground Storage Tank Compliance Unit, 2005 North Central Avenue, Phoenix, Arizona 85004.
5. Drive-by, Conducted by Shelley J. Miller, Arizona Department of Environmental Quality. March 29, 1991.
6. Phoenix, Arizona Quadrangle, U. S. Department of Interior, Geological Survey, 7.5 minute series, 1952. Photorevised 1967 and 1973.
7. Cole's City of Phoenix Directories, 1965-1991, City of Phoenix Library.
8. Maricopa County Assessors Office, 301 West Jefferson Street, Phoenix, Arizona.
9. Contact Report: Linda Taunt, City of Phoenix, Planning Department, and Shelley J. Miller, Arizona Department of Environmental Quality. April 03, 1991.
10. Arizona Department of Environmental Quality, Groundwater Permits, 1989.
11. Arizona Department of Environmental Quality, Drywell Registry. September 15, 1989.
12. City of Phoenix, Waste and Wastewater Department, Wastewater Discharge Permit List, 1989.
13. Tim Habegger, Arizona Occupational Safety and Health Administration, and Shelley J. Miller, Arizona Department of Environmental Quality, Telephone Conversation. April 04, 1991.

14. Contact Report: Ralph Eaton, Eaton Investments, Inc., and Shelley J. Miller, Arizona Department of Environmental Quality. April 04, 1991.
15. Contact Report: John Reasner, Sola/Barnes-Hind, 1100 E. Bell Road, Phoenix, Arizona 85022, and Shelley J. Miller, Arizona Department of Environmental Quality. April 05, 1991.
16. Syntex Ophthalmics, Inc., 1100 E. Bell Road, to Department of Health Services, Waste Compliance Unit, Letter. February 12, 1986.
17. Contact Report: Donna George, Manager, Sierra Capital Realty Service, and Shelley J. Miller, Arizona Department of Environmental Quality. April 01, 1991.
18. Sarah Mapes, Arizona Department of Health Services, Hazardous Waste Compliance Unit, to Martha Entsminger, Syntex Ophthalmics, Inc., Letter. September 29, 1983.
19. Warren Kusters, Maricopa County Health Department, Bureau of Air Pollution Control, 1845 E. Roosevelt, Phoenix, Arizona 85006.
20. Victoria Brind'Amour, Department of Health Services, Compliance Unit, to File, Memo. May 25, 1984.
21. Martha Entsminger, Syntex Ophthalmics, Inc., to William Wilson, U. S. Environmental Protection Agency, Region IX, Letter. October 19, 1983.
22. Earth Technology Corporation, West Central Phoenix Area Phase I Report. August, 1989.
23. Maps Showing Groundwater Conditions in the West Salt River, East Salt River, Lake Pleasant, Carefree and Fountain Hills Sub-basins of the Phoenix Active Management Area, Maricopa Pinal and Yavapai Counties Arizona, 1983, by R. L. Reeter and W. H. Remick, Arizona Department of Water Resources, Hydrogeologic Map Series, Report Number 12. July 1986.
24. Hydrogeology of the Western Part of the Salt River Valley Area, Maricopa County, Arizona. T. G. Brown and D. R. Pool, U. S. Geological Survey, Water Resources Investigations Report 84-4202, 1989.
25. Merged 55 and GWSI Well Registry, Arizona Department of Water Resources. August 30, 1988.

26. General Soil Map, Maricopa County, Arizona, by Soil Conservation Service, United States Department of Agriculture, 1973.
27. "Porosity and Permeability of Natural Materials in Flowthrough Porous Media," S. N. Davis, R.J.M. De Wiest ed., Academic Press, New York, 1969.
28. Climatic Atlas of the United States, U. S. Department of Commerce, Environmental Science Services Administration, Environmental Data Service. June 1968.
29. Rainfall Frequency Atlas of United States, U. S. Department of Commerce, 1973.
30. Maricopa County, Census Tracts Information. October 1, 1985.
31. Endangered Species and Sensitive Environment Information for the Phoenix Metropolitan Area, Arizona Department of Game and Fish, 1989.
32. Contact Report: Frank Blanco, City of Phoenix, Water and Wastewater, and Shelley J. Miller, Arizona Department of Environmental Quality. May 2, 1991.
33. City of Phoenix Map Showing Public Supply Wells, 1989.
34. Contact Report: Gerald Arakaki, City of Phoenix, Engineering Department, and Louis Parsons, Arizona Department of Health Services. August 5, 1986.
35. CERCLIS Database. December 03, 1990.
36. Phoenix Well #71 Site Inspection Report, prepared by Charles Graf, Arizona Department of Health Services. September 3, 1985.
37. "Annual Water Withdrawal and Use Report," Phoenix AMA, Arizona Department of Water Resources, 1989.
38. Contact Report: Frank Blanco, City of Phoenix Water Production, and Michael Bellot, Arizona Department of Environmental Quality. December 15, 1989.
39. Jeff Eldot, Salt River Project, Memo. April 17, 1990.
40. David Marcus, Sola/Barnes-Hind, Inc., 810 Kifer Road, Sunnyvale, California 94086, to Shelley J. Miller, Arizona Department of Environmental Quality, 2005 N. Central Avenue, Phoenix, Arizona 85004, Letter. May 20, 1991.

41. Contact Report: Frank Blanco, City of Phoenix, Water Production, and Shelley J. Miller, Arizona Department of Environmental Quality. May 28, 1991.
42. Contact Report: Bob Myers, T.I.M.S., 2930 West Clarendon Avenue, Phoenix, Arizona 85017, and Shelley J. Miller, Arizona Department of Environmental Quality, 2005 N. Central Avenue, Phoenix, Arizona 85004. May 29, 1991.
43. Contact Report: Matol Botanical International, 2975 East Fairmount Avenue, and Shelley J. Miller, Arizona Department of Environmental Quality, 2005 N. Central Avenue, Phoenix, Arizona 85004. May 29, 1991.
44. Contact Report: Advanced Copy Systems/Canon, 2931 West Fairmount, and Shelley J. Miller, Arizona Department of Environmental Quality, 2005 N. Central Avenue, Phoenix, Arizona 85004. May 29, 1991.
45. "Preliminary Assessment Questionnaire," Chem-Serv, Inc., April 17, 1991.
46. William Mancini, Sola U.S.A., Inc., P. O. Box 6002, Petaluma, California 94953, to Lisa Haage, U. S. Environmental Protection Agency, Region 9, Letter. June 29, 1987.
47. Martha Entsminger, Syntex Ophthalmics, 2931 West Fairmount, Phoenix, 85017, to Don Basile, Rinchem Co., Inc. 2402 South 15th Avenue, Phoenix, Arizona 85007, Letter. September 12, 1979.
48. Hazardous Waste Manifests, Purchase Requisitions, and Invoices for Syntex Ophthalmics, 1980 and 1984.
49. Generator Inspection Reports, Arizona Department of Health Services, Bureau of Waste Control. August 31, 1983.
50. Preliminary Assessment, West Phoenix Industrial Area, Phoenix, Arizona 85009, Prepared by Ana Vargas, Arizona Department of Environmental Quality, 2005 North Central Avenue, Phoenix, Arizona 85004. August 6, 1990.
51. Material Safety Data Sheet. March, 1986.
52. Contact Report: Goodwin, S. D., Arizona Department of Environmental Quality, and Al Jackson, Production Manager, Crystal Bottled Water. May 24, 1991.
53. Pinal County Planning and Development Department, Special Census Data. March, 1985.

54. Maricopa County Planning and Development Department, Special Census Data. October, 1985.
55. Yuma County Planning and Development Department, Special Census Data. October 1985.
56. Contact Report: Judy Heywood, Arizona Department of Environmental Quality, and Ana I. Vargas, Arizona Department of Environmental Quality. August 20, 1990.
57. Flood Insurance Rate Map, Maricopa County, Arizona and Incorporated Areas, Map #04013C2130D. April 15, 1988.
58. Report of Well Driller, Crystal Bottled Waters Well. January 10, 1974.
59. Contact Report: Donna Farina, Alhambra Elementary School District, 4510 N. 37th Avenue, Phoenix, Arizona 85019, and Shelley J. Miller, Arizona Department of Environmental Quality. July 9, 1991.

PA/SI CONTACT LOG

Facility Name: Syntex Ophthalmics

EPA ID Number: AZD982007767

NAME	AFFILIATION	PHONE	DATE	INFORMATION
Monte Moore	Advanced Copy Systems/Canon	279-1504	5/30/91	See Contact Report
Bob Meyers	T.I.M.S.	242-1410	5/29/91	See Contact Report
Bonnie White	Matol Botanical International	285-0772	5/29/91	See Contact Report
Frank Blanco	City of Phoenix, Water Production	262-7454	5/28/91	See Contact Report
Frank Blanco	City of Phoenix, Water Production	262-7454	12/15/89	See Contact Report
Frank Blanco	City of Phoenix, Water Production	262-7454	5/2/91	See Contact Report
Gerald Arakaki	City of Phoenix, Engineering Department	261-8229	None	See Contact Report
John Reasner	Sola/Barnes-Hind	482-4205	4/5/91	See Contact Report
Ralph Eaton	Eaton Investments, Inc.	277-1212	4/4/91	See Contact Report
Tim Habegger	Arizona OSHA	542-5795	4/4/91	See Contact Report

PA/SI CONTACT LOG

Facility Name: Syntex Ophthalmics

EPA ID Number: AZD982007767

NAME	AFFILIATION	PHONE	DATE	INFORMATION
Linda Taunt	City of Phoenix, Planning	262-7131	4/3/91	See Contact Report
Donna George	Sierra Capital Realty Service	272-3295	4/1/91	See Contact Report
Donna George	Sierra Capital Realty Service	272-3295	4/2/91	See Contact Report
Shelley Miller	ADEQ Site Discovery	257-6861	3/29/91	See Contact Report
Barbara Herron	ADEQ UST Compliance	257-2203	4/3/91	No Record
Warren Kosters	Maricopa County Health Department, Bureau of Air Pollution Control	440-6702	4/19/91	No Record
Vickie Bauer	City of Phoenix, Fire Inspections	261-8025	6/7/91	No Information in File
Al Jackson	Crystal Bottled Water	279-7825	5/24/91	See Contact Report
Judy Heywood	ADEQ Site Assessment	257-2124	8/20/90	See Contact Report
Donna Farina	Alhambra Elementary School District	246-5100	7/9/91	See Contact Report

CONTACT REPORT

AGENCY AFFILIATION: Arizona Dept. of Environmental Quality		
DEPARTMENT: Site Discovery and Hazard Evaluation Unit		
ADDRESS/CITY: 2005 North Central, Phoenix		
COUNTY/STATE/ZIP: Maricopa, Arizona, 85004		
CONTACT	TITLE	PHONE
1.		
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 3/29/91
SUBJECT: Syntex Ophthalmics, Inc. Drive-by		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

2975 W. Fairmount is currently occupied by Matol Botanical International. 2931 W. Fairmount is currently occupied by Advanced Copy Systems, Inc., Canon. 2930 W. Clarendon is currently occupied by Telephone Installation Maintenance Service.

On this site there are two office complexes. The complex that houses the two previous named businesses faces Fairmount. The other complex is directly south and faces Clarendon.

On the north side of Fairmount is a parking lot and an office for Abco Markets. There is a driveway on the east side of this site and 30th Avenue is on the west side.

There is a fenced area behind each office.

CONTACT REPORT

AGENCY AFFILIATION: Sola/Barnes-Hind		
DEPARTMENT:		
ADDRESS/CITY: 1100 East Bell Road		
COUNTY/STATE/ZIP: Maricopa, Arizona 85022		
CONTACT	TITLE	PHONE
1. John Reasner		482-4205
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/5/91
SUBJECT: Company Ownership/History		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

Pilkington in London owns U. S. Pilkington Vision Care.
U. S. Pilkington Vision Care is located in Menlo Park, CA.

Pilkington owned Barnes-Hind. They purchased Sola and merged the companies to become Sola/Barnes-Hind.

CONTACT REPORT

AGENCY AFFILIATION: City of Phoenix		
DEPARTMENT: Water and Wastewater, Water Production Division		
ADDRESS/CITY: 5204 E. Thomas Road, Phoenix		
COUNTY/STATE/ZIP: Maricopa, Arizona 85018		
CONTACT	TITLE	PHONE
1. Frank Blanco		262-7454
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 5/2/91
SUBJECT: Public Drinking Water Supply Wells		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

<p>Mr. Blanco provided the following information:</p> <p>Closest well to this site is Phoenix Well #71, USGS Location (02-02)27DCB2. Address of well is FX-9 Wells Well is capped and has been off line since April, 1982. Depth to groundwater at Well #71 was 194 feet prior to 1982.</p>
--

CONTACT REPORT

AGENCY AFFILIATION: Eaton Investments, Inc.		
DEPARTMENT:		
ADDRESS/CITY: 3200 North Central Avenue, Suite 2050		
COUNTY/STATE/ZIP: Maricopa, Arizona 85012		
CONTACT	TITLE	PHONE
1. Ralph Eaton	Owner	277-1212
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/4/91
SUBJECT: Site Ownership/History		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

Eaton Investments was formerly known as Eaton Development Corporation. Mr. Eaton owned and developed the property that is now occupied by this site.

Mr. Eaton purchased the land about 1965. The park that is known at the present time as Phoenix Plaza II was built by Mr. Eaton in approximately 1967.

At the time Mr. Eaton purchased this property, it was occupied by Airhaven Airport. There was a runway with alfalfa fields on either side and small plane hangers. There were no chemicals housed at this location.

CONTACT REPORT

AGENCY AFFILIATION: Arizona Occupational Safety & Health Adm.		
DEPARTMENT:		
ADDRESS/CITY: 800 W. Washington		
COUNTY/STATE/ZIP: Maricopa, Arizona 85007		
CONTACT	TITLE	PHONE
1. Tim Habeggar		542-5795
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/4/91
SUBJECT: OSHA Inspection		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

No OSHA inspection done at this site. OSHA inspected Syntex at 35th Avenue location and at 1100 East Bell Road.

CONTACT REPORT

AGENCY AFFILIATION: City of Phoenix		
DEPARTMENT: Planning Department		
ADDRESS/CITY: 125 E. Washington Street		
COUNTY/STATE/ZIP: Maricopa, Arizona 85004		
CONTACT	TITLE	PHONE
1. Linda Taunt		262-7131
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/3/91
SUBJECT: Zoning of Property Surrounding Site		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

Property surrounding the site is zoned light industrial.
Legal description of property is Airhaven Industrial
District.

CONTACT REPORT

AGENCY AFFILIATION: Sierra Capital Realty Service		
DEPARTMENT:		
ADDRESS/CITY: 3106 W. Thomas, Suite 1112		
COUNTY/STATE/ZIP: Maricopa, Arizona 85017		
CONTACT	TITLE	PHONE
1. Donna George	Manager	272-3295
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/2/91
SUBJECT: Property at 29th Avenue and Fairmount		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

<p>Property is 182,400 sq. feet. Requested names of current occupants. Will fax site diagram.</p>

CONTACT REPORT

AGENCY AFFILIATION: Sierra Capital Realty Service		
DEPARTMENT:		
ADDRESS/CITY: 3106 W. Thomas, Suite 1112		
COUNTY/STATE/ZIP: Maricopa, Arizona 85017		
CONTACT	TITLE	PHONE
1. Donna George	Manager	272-3295
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 4/1/91
SUBJECT: Property at 29th Avenue and Fairmount		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

Property Ownership: Sierra-Sammis (Trust Company)
October 1987- California Limited Partnership
Present

Sierra Capital Companies--
Incorporates trusts owned by Sierra-Sammis

Sierra Capital Realty Services--
Managing Agent for Sierra Capital Companies

Previous owner: Eaton Investments, Inc. (Eaton Development)

Business complexes at Fairmount and 30th Avenue and Clarendon and 30th Avenue are know by the manager as Phoenix Plaza II.

Nine parcels at this location: 108-01-108, 103-01-109, 108-01-110B, 108-01-112A, 108-01-113, 108-01-114, 108-01-115A, 108-01-107, 108-01-106A.

Eaton Investments built the complex and owned it for approximately 25 years.

CONTACT REPORT

AGENCY AFFILIATION: City of Phoenix		
DEPARTMENT: Water and Wastewater, Water Production Division		
ADDRESS/CITY: 5204 E. Thomas Road, Phoenix		
COUNTY/STATE/ZIP: Maricopa, Arizona 85018		
CONTACT	TITLE	PHONE
1. Frank Blanco		262-7454
2.		
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 5/28/91
SUBJECT: Public Drinking Water Supply Wells		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

COP Well #82 was taken out of production due to high nitrates.

COP Wells #151 and #152 were shut down due to high nitrates. The TCE level in these wells was at MCL. Wells #151 and #152 were last pumped in March, 1989.

The City of Phoenix has a denitrification process in the makings. These wells may be put back on line after treatment.

CONTACT REPORT

AGENCY AFFILIATION: Matol Botanical International		
DEPARTMENT:		
ADDRESS/CITY: 2975 East Fairmount Avenue		
COUNTY/STATE/ZIP: Maricopa, Arizona 85017		
CONTACT	TITLE	PHONE
1. Bonnie White		285-0772
2.	<i>Shelley</i>	
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 5/29/91
SUBJECT: Type of Business		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

This business sells health products. They sell an herbal drink called KM. They also sell weight management products: nutritional health bar and a powder.

CONTACT REPORT

AGENCY AFFILIATION: Telephone Instal. Maint. Serv. (T.I.M.S.)		
DEPARTMENT:		
ADDRESS/CITY: 2930 West Clarendon Avenue		
COUNTY/STATE/ZIP: Maricopa, Arizona 85017		
CONTACT	TITLE	PHONE
1. Bob Meyers		242-1410
2.	<i>Sp...</i>	
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 5/29/91
SUBJECT: Type of Business		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

This business sells and installs business telephone systems. They do no manufacturing and don't use any kind of chemicals.

CONTACT REPORT

AGENCY AFFILIATION: Advanced Copy Systems/Canon		
DEPARTMENT:		
ADDRESS/CITY: 2931 West Fairmount Avenue		
COUNTY/STATE/ZIP: Maricopa, Arizona 85017		
CONTACT	TITLE	PHONE
1. Monte Moore		279-1504
2.	<i>Smr</i>	
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 5/30/91
SUBJECT: Type of Business		
SITE NAME: Syntex Ophthalmics		EPA ID: AZD982007767

INFORMATION RECEIVED

<p>This business is a copier company. They sell, supply and service copy machines. Their only chemical use is the toner contained in cartridges.</p>
--

CONTACT REPORT

AGENCY AFFILIATION: Alhambra Elementary School District		
DEPARTMENT:		
ADDRESS/CITY: 4510 North 37th Avenue		
COUNTY/STATE/ZIP: Maricopa, Arizona 85019		
CONTACT	TITLE	PHONE
1. Donna Farina		246-5100
2.	<i>Smj</i>	
PERSON MAKING CONTACT: Shelley J. Miller		DATE: 7/9/91
SUBJECT: School Population		
SITE NAME: Syntex Ophthalmics, Inc.		EPA ID: AZD982007767

INFORMATION RECEIVED

The schools located at 31st Avenue and Campbell are:
Granada Primary Elementary and Granada East Elementary.
The enrollment of Granada Primary is: 681 students.
The enrollment of Granada East is: 577 students.

CONTACT LOG

AGENCY AFFILIATION: City of Phoenix		
DEPARTMENT: Engineering Department		
ADDRESS/CITY: Phoenix		
COUNTY/STATE/ZIP: Maricopa, Arizona		
CONTACT	TITLE	PHONE
1. Gerald Arakaki	Civil Engineer	261-8229
2.		
PERSON MAKING CONTACT: Louis Parsons		DATE: 261-8229
SUBJECT: Interconnection of Wells		
SITE NAME: Van Buren Tank Farm		EPA ID: AZD980890917

INFORMATION RECEIVED

I contacted Mr. Arakaki to verify that the municipal supply wells in Phoenix feed one or more water treatment plants. The water is pumped from the ground, treated and put in distribution lines to be delivered to the consumer. No effort is made to send the water from a well to any particular area. The distribution system is interconnected.

He was able to give the status of the municipal wells in the VBTF Area that I identified.

Well Designation	Output (gpm)	Status
P-68	650	Active
P-69	450	Active
P-70	820	Active
P-71	700	Active
P-151	850	Active
P-152	1320	Active
P-156	1080	Active
P-154 and P-100 to be abandoned and probably not active.		

CONTACT REPORT

AGENCY AFFILIATION: City of Phoenix		
DEPARTMENT: Water Production		
ADDRESS/CITY: 455 North 5th Street, Phoenix		
COUNTY/STATE/ZIP: Maricopa, Arizona,		
CONTACT	TITLE	PHONE
1. Frank Blanco	Water Quality Rep.	262-7454
2.		
PERSON MAKING CONTACT: Michael E. Bellot		DATE: 12/15/89
SUBJECT: Municipal Well use		
SITE NAME: Pyramid Industries		EPA ID: AZD990722738

INFORMATION RECEIVED

Asked Mr. Blanco about the current status of City of Phoenix production wells.

Well	Capacity	Last Used	Reason for removal
68	650 gpm	3/25/86	High TDS
69	unknown	10/88	High Nitrates
70	unknown	1982	TCE
71	unknown	1982	TCE
72	400 gpm	on line	na
100	700 gpm	1984	High EDB
151	unknown	5/89	TCE/Nitrates
152	unknown	5/89	High Nitrates
154	unknown	1984	High Nitrates
155	unknown	1984	High Nitrates
156	unknown	11/88	High Nitrates
157	unknown	11/88	High Nitrates
178	unknown	12/82	filled w/concrete

The well that is running is interconnected with the water supply for the Phoenix area. Water is supplied to more than 10,000 people for consumption.

CONTACT REPORT

AGENCY/AFFILIATION: Crystal Bottled Water		
DEPARTMENT:		
ADDRESS/CITY: 3302 W. Earll Drive/Phoenix		
COUNTY/STATE/ZIP: Maricopa/Arizona/85009		
CONTACT(S)	TITLE	PHONE
1. Al Jackson	Production Manager	279-7825
2.		
ADEQ PERSON MAKING CONTACT: Scott Goodwin <i>SG</i>		DATE: 05-24-91
SUBJECT: People served by Crystal Bottled Water		
SITE NAME: Royal Sign Company		EPA ID#: AZD982470379

Mr. Jackson indicated Crystal Bottled Water serves 3,500 residences in the State of Arizona. All water is processed before bottling.

CONTACT REPORT

AGENCY/AFFILIATION: Arizona Department of Environmental Quality		
DEPARTMENT:		
ADDRESS/CITY:		
COUNTY/STATE/ZIP:		
CONTACT(S)	TITLE	PHONE
1. Judy Heywood	Manager, Site Assessment	257-2124
2.		
ADEQ PERSON MAKING CONTACT: Ana I. Vargas <i>AD</i>		DATE: 8-20-90
SUBJECT: Status of Shamrock Dairy Well		
SITE NAME: Ohlinger Industries, Inc.		EPA ID#: AZD982007817

I talked to Judy and she told me that the Shamrock Dairy Well should be considered a public supply well. The Arizona Department of Water Resources (DWR) well database does not list this well as a public supply well. However, Judy sampled this well in 1987 for ADEQ and recalls that the Shamrock Dairy representatives told her that the water from the well was treated and bottled for public consumption. Shamrock, besides being in the dairy business, also bottles water.

DATE: 03/29/91

TIME: 11:00 a.m.

DIRECTION: Facing S

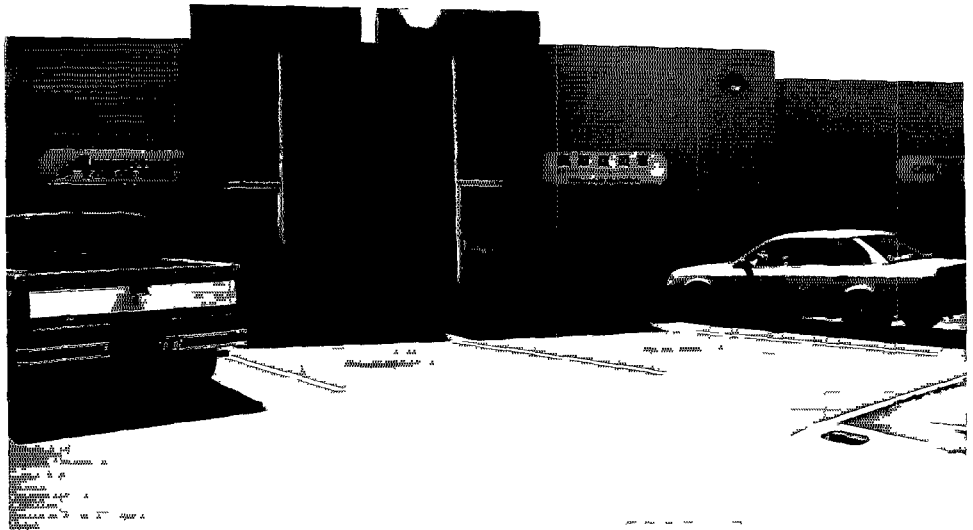
WEATHER: Clear & Sunny

PHOTOGRAPHER:

Shelley J. Miller

DESCRIPTION:

Photo shows the front of Syntex at 2975 W. Fairmount Avenue.



DATE: 03/29/91

TIME: 11:00 a.m.

DIRECTION: Facing N

WEATHER: Clear & Sunny

PHOTOGRAPHER:

Shelley J. Miller

DESCRIPTION:

Photo shows the back of Syntex at 2975 W. Fairmount Avenue.



DATE: 03/29/91

TIME: 11:00 a.m.

DIRECTION: Facing S

WEATHER: Clear & Sunny

PHOTOGRAPHER:

Shelley J. Miller

DESCRIPTION:

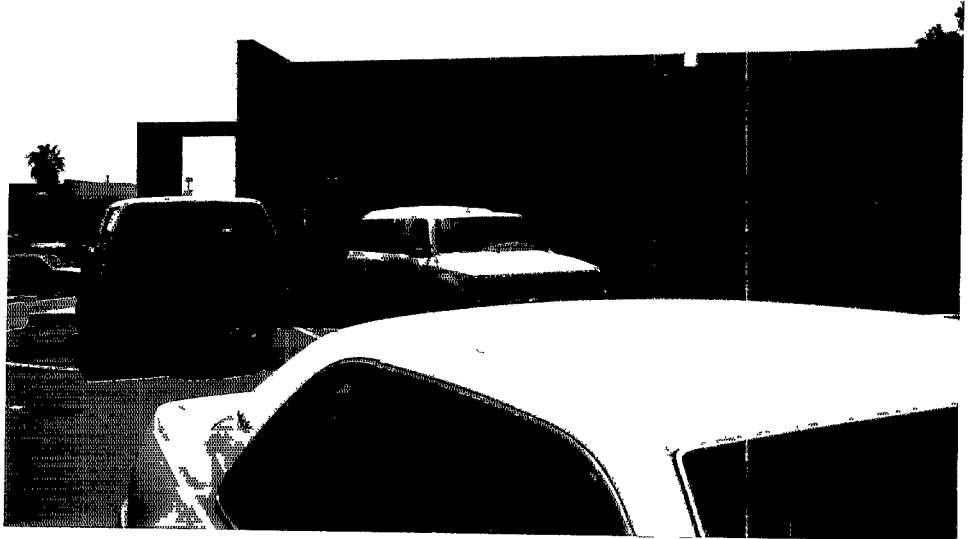


Photo shows the front of Syntex at 2931 W. Fairmount.

DATE: 03/29/91

TIME:

DIRECTION:

WEATHER:

PHOTOGRAPHER:

Shelley J. Miller

DESCRIPTION: